

ABSTRACT OF THE DISCLOSURE

The alignment of two pieces of machinery is achieved so that centerlines of rotating shafts of each piece are in-line. The methods and systems include a) rotating a shaft on a first unit, the first unit including a laser holder assembly for projecting a light source in a circle around a centerline of the first shaft, b) projecting the light source from the laser holder assembly to a target on a second unit, the second unit having a second shaft, c) adjusting a horizontal and vertical position of the second unit to align a centerline of the second shaft with a center of the circle produced by the light source, d) reversing the position of the laser holder assembly on the first unit and the target on the second unit, e) rotating the second shaft on the second unit so that the laser holder assembly on the second unit projects the light source around the centerline of the second shaft, f) adjusting an angular position of the second unit to align the centerline of the second shaft with the center of the target, and optionally reducing the size of the circle produced by the light source to more precisely determine its center.